

Abstract

An actuator for a traction device comprising has a locking clutch adapted for operative communication with a traction device. It has a drive disc having drive tabs. The drive tabs project axially into driving engagement with the locking clutch. The drive disc has a seat with an inner face. A drive shaft with a cam having an outer face is disposed within the seat of the drive disc such that said outer face of the cam and the inner face of the seat define a first constricting channel and a second constricting channel. The cam further has a projection. Locking rollers are disposed within the constricting channels. A fixed stop is disposed between the cam outer face and the inner face of said seat and between the first locking roller and the second locking roller. Springs are disposed in the constricting channels between the locking rollers and the projection. Thereby, a rotational force applied on the drive shaft in a first rotational direction compresses a first spring and a rotational force applied to the drive shaft in a second rotational direction compresses a second spring. After release of the first rotational force in the first direction, the first spring biases the cam towards a home position and after a release of the second rotational force in the second direction, the second spring biases the cam towards a home position.